

InStruc® POMCGF25

Americhem - Acetal (POM) Copolymer

General Information
Product Description

25% GLASS FIBER REINFORCED, ACETAL COPOLYMER

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Closures • Consumer Applications • Electrical/Electronic Applications	• Engineering Parts • Household Goods • Industrial Applications	• Office Automation Equipment • Window & Door Components
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.58		ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.10E+6	psi	ASTM D638
Tensile Strength	16000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength	24000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.5	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	11	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	320	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	4.0	hr
Processing (Melt) Temp	375 to 410	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

